Frequency Table

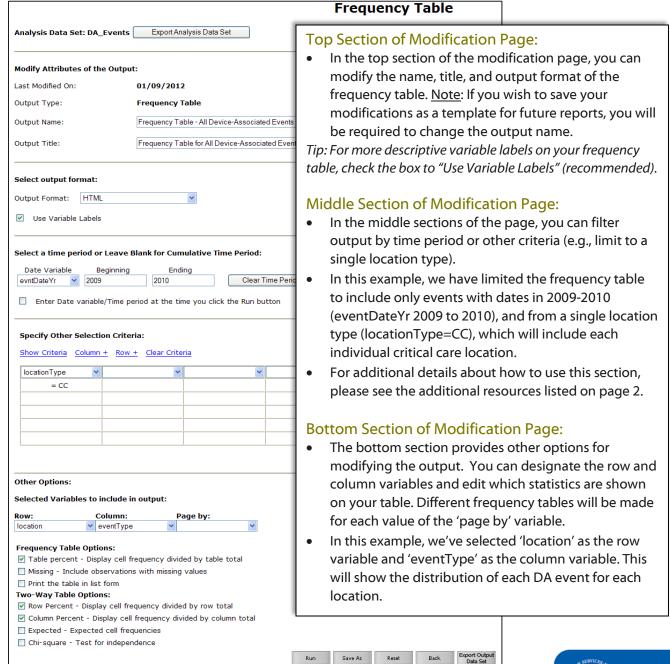
Description

A frequency table is an organized display of counts and percentages. The data are organized by a row variable and a column variable, and the frequency table provides a count of the number of observations in the data set that meet the specifications of both the row and column variables.

Example

Suppose you are interested in looking at the distribution of each device-associated (DA) event across the different critical care locations in your facility, for all events that were identified in 2009 and 2010.

Modification Page





Output/Results and Interpretation

This example frequency table is the result of the modifications shown on page 1. For each row/column combination, there are four cells of data. Let's look at the 71ICU location/BSI event type combination (boxed in red):

- NOTE: In the top left corner of the table, there is a "legend" explaining what each cell in the frequency table represents (boxed in green).
- The top cell of each combination provides a simple count of the number of events (frequency) that have occurred meeting both the row and column criteria. In this example, there were 8 bloodstream infections (BSI) in the 71ICU between 2009 and 2010.
- The second cell for the 71 ICU is the percent of all events in the dataset that meet both the row and column variables (percent of table total). For example, 21.62% of all deviceassociated events in 2009 and 2010 were BSIs in the 71ICU (8/37).
- The third cell is the percent of events of a given type per total of a given row (row percent). In this example, 53.33% of all device-associated (DA) events in the 71ICU were bloodstream infections (BSI) (8/15).
- The fourth cell is the percent of events of a given type across all columns (Column Percent), and in this case shows the percent of each DA event type that occurred in a certain location. For example, 32% of all BSI events occurred in the 71ICU (8/25).
- The margins of the column and row variables (boxed in blue) contain the total counts (top cells) and total percentages (bottom cells) of data for each location (or strata). For example, in 71ICU, there were 15 DA events accounting for 40.54% (15/37) of all DA events reported from these locations during 2009-2010. Similarly, there were 25 BSIs accounting for 67.57% (25/37) of all DA

events reported from these locations during 2009-2010.

National Healthcare Safety Network Frequency Table for All Device-Associated Events As of: January 9, 2012 at 4:38 PM Date Range: DA_EVENTS evntDateYr 2009 to 2010

Frequency Percent Row Pct Col Pct	Table of location by eventType				
	location(Location)	eventType(Event Type)			
		BSI	PNEU	UTI	Total
	22ICU	1	0	0	1
		2.70	0.00	0.00	2.70
		100.00	0.00	0.00	
		4.00	0.00	0.00	
	3- WEST	1	0	0	1
		2.70	0.00	0.00	2.70
		100.00	0.00	0.00	
		4.00	0.00	0.00	
	5G	1	0	0	1
	00	2.70	0.00	0.00	2.70
		100.00	0.00	0.00	
		4.00	0.00	0.00	
	CALVEL	0	1	0	1
	61EAST	0.00	2.70	0.00	2.70
		0.00	100.00	0.00	2.70
		0.00	25.00	0.00	
			_		
	71ICU	8	2	5	15
		21.62	5.41	13.51	40.54
		53.33	13.33	33.33	
		32.00	50.00	62.50	
	F.SICU	0	0	1	1
		0.00	0.00	2.70	2.70
		0.00	0.00	100.00	
		0.00	0.00	12.50	
	ICU	4	0	1	5
		10.81	0.00	2.70	13.51
		80.00	0.00	20.00	
		16.00	0.00	12.50	
	INMEDCC	2	0	0	2
		5.41	0.00	0.00	5.41
		100.00	0.00	0.00	
		8.00	0.00	0.00	
	MICU	1	0	0	1
		2.70	0.00	0.00	2.70
		100.00	0.00	0.00	
		4.00	0.00	0.00	
	S-ICU	7	1	1	9
	0.00	18.92	2.70	2.70	24.32
		77.78	11.11	11.11	
		28.00	25.00	12.50	
	Total	25	4	8	37
	Total	67.57	10.81	21.62	
		07.37	10.01	21.02	100.00

Additional Resources:

Introduction to NHSN Analysis: http://www.cdc.gov/nhsn/PDFs/training/intro-AnalysisBasics-PSC.pdf How to filter data by time period: http://www.cdc.gov/nhsn/PS-Analysis-resources/PDF/FilterTimePeriod.pdf How to filter data on additional criteria: http://www.cdc.gov/nhsn/PS-Analysis-resources/PDF/SelectionCriteria.pdf